

# FW951 SYNC MODULE



## DESCRIPTION

The FW951 Sync Module is a device designed with FW961/FW971/FW981 Horn and/or Strobe with a built-in synchronization circuit to synchronize multiple FW961s in a complete fire alarm system. There are up-to 64 Notification Appliance Circuits (NAC), networked, stand alone or interfacing with the FW951.

## ATTENTION



The product must be used within its published specifications and properly installed, operated, and maintained, in accordance with these instructions. Users are solely responsible for determining whether a product is suitable for the user's purposes or achieves the intended results. Read the instructions carefully before using this product. Failure to comply with any of the instructions, cautions, and warnings could result in improper application, installation and/or operation of these products in an emergency situation. This could result in property damage and serious personal injury or death.

## NOTE

Do not paint this device. Any material extrapolated from this document or from Maple Armor's instructions or other documents describing the product for use in promotional or advertising claims, or for any other use, including description of the product's application, operation, installation, and testing is the sole responsibility of the user. Maple Armor will not assume any liability for such use. In no case will Maple Armor's liability exceed the purchase price paid for a product.

## SPECIFICATION

<b>Operating Voltage</b>	16 – 33VDC
<b>Maximum Load</b>	3A on loop
<b>Quiescent Current</b>	0mA
<b>Wire Size</b>	12 – 18AWG
<b>Operating Temperature</b>	0° - 49°C (32° - 120°F)
<b>Operating Humidity</b>	0 - 93% RH
<b>Synchronization</b>	32 NACs (Class A) or 64 NACs (Class B)
<b>Location</b>	Indoor use only
<b>Compliance</b>	UL 1971, UL 1638, UL 464 ULC S525, ULC 2526

## INSTALLATION and WIRING

### CAUTION

Check the manufacturers installation instructions for other equipment used in the system for any guidelines or restrictions on wiring and/or locating NACs and notification appliances. Some system communication circuits and/or audio circuits, for example, may require special precautions to assure electrical noise immunity (e.g., audio crosstalk).

Check that the installed product will have sufficient clearance and wiring room prior to installing bases. Do not over tighten mounting screws as this can deform the base and may affect operation. Check that the installed Manual Station is fully functional.

1. Mount the base onto a 4x4 electrical box or combine the Printed Circuit Board (PCB) fixed structure and base using the screws provided, see Figure 1.

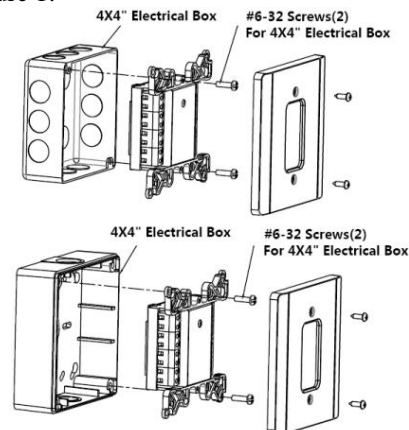
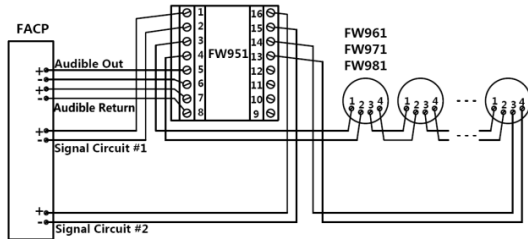


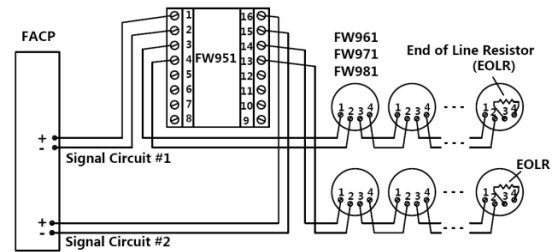
Figure 1. Manual Station Installation

**INSTALLATION and WIRING, Continued**

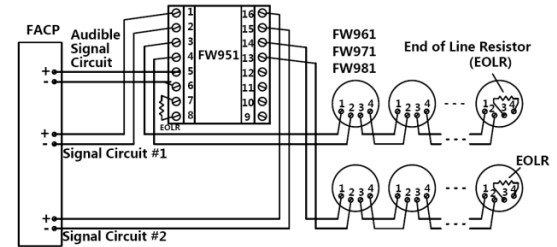
2. Connect the synchronization wires, see (a) Class A Circuit without Audible Silence Feature



(b) Class A with Audible Silence Feature



(c) Class B without Audible Silence Feature



(d) Class B with Audible Silence Feature

Figure 3.

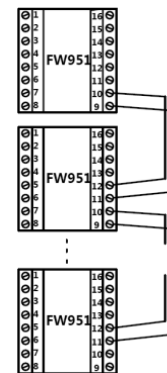
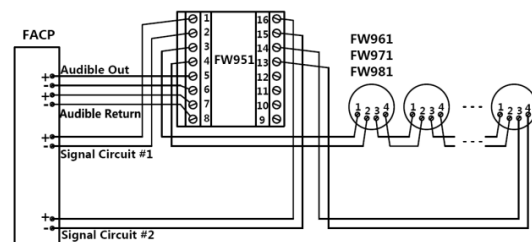
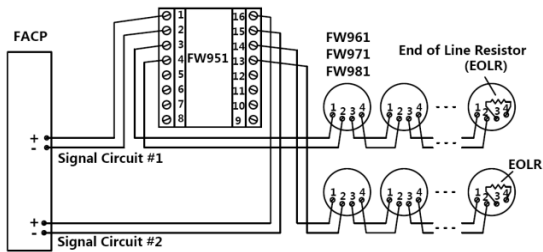


Figure 2. Multiple Modules Synchronization

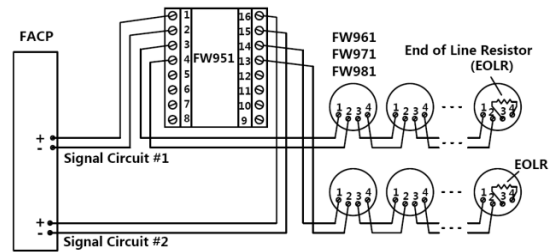
3. Connect the signal wires, see (a) Class A Circuit without Audible Silence Feature



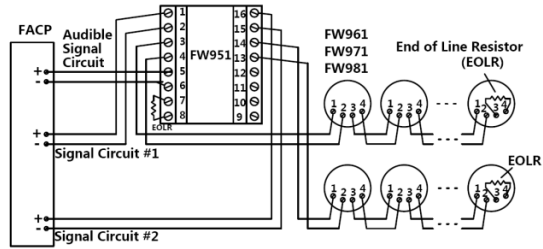
(b) Class A with Audible Silence Feature



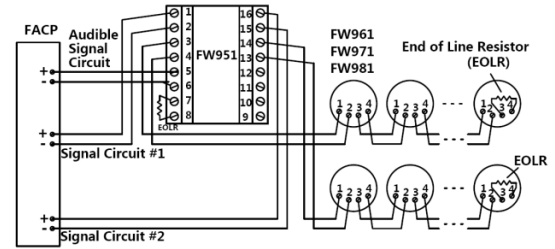
(c) Class B without Audible Silence Feature



(c) Class B without Audible Silence Feature



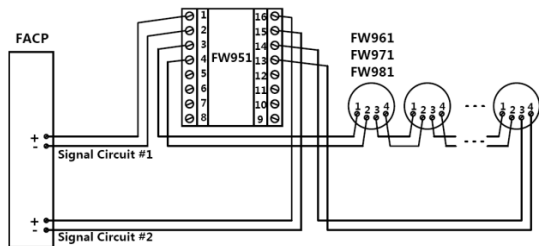
(d) Class B with Audible Silence Feature



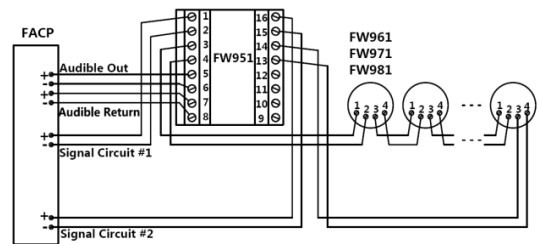
(d) Class B with Audible Silence Feature

4. Figure 3.

Figure 3. Single Module Wiring Diagram



(a) Class A Circuit without Audible Silence Feature



(b) Class A with Audible Silence Feature

## MAINTENANCE

Scheduled inspection and operational test should be carried as per requirement set out by Local Authority Having Jurisdiction.

To maintain agency listing, do not change factory applied finishes.